Customer No.: 31561 Docket No.: 11121-US-PA

Application No.: 10/709,637

Amendment

Please amend the claims according to the following listing of claims and

substitute it for all prior versions and listings of claims in the application.

1. (currently amended) An active device array structure for rapidly twisting the

alignment of liquid crystal molecules from a splay state to a bend state, the active device

array structure comprising:

a base plate;

a plurality of gate lines disposed over the base plate;

a plurality of data lines disposed over the base plate, wherein a pixel area is

formed between any two adjacent gate lines and any two adjacent data lines;

a plurality of active devices disposed over the base plate, wherein each active

device is formed in an intersection region between the gate line and the data line and

electrically connected to corresponding gate line and data line;

a plurality of storage capacitors disposed over the base plate, wherein each storage

capacitor has an upper electrode having at least a first aperture; and

a plurality of pixel electrodes disposed over the pixel area, wherein each of the

pixel electrodes is respectively electrically connected to the corresponding active device

and the corresponding upper electrode, and the upper electrode of each storage capacitor

is located underneath an edge of the corresponding pixel electrode,

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wherein each of pixel electrodes further comprises at least a second aperture when the first aperture is located underneath the pixel electrode, and the second aperture is formed directly above the first aperture.

2. (original) The active device array structure of claim 1, wherein the gate lines are formed in parallel over the base plate, the data lines are formed in parallel over the base

plate, and the gate lines are perpendicular to the date lines.

3. (original) The active device array structure of claim 1, wherein the active

devices comprise thin film transistors.

4. (original) The active device array structure of claim 1, wherein the pixel

electrodes comprise transparent electrodes.

5. (original) The active device array structure of claim 1, wherein the pixel

electrodes comprise reflective electrodes.

6. (original) The active device array structure of claim 1, wherein the upper

electrode is disposed over a portion of the gate line occupied area to form a storage

capacitor.

7. (original) The active device array structure of claim 1, further comprises a

plurality of common lines formed between the gate lines, and the upper electrode is

disposed over a portion of the common line occupied area to form a storage capacitor.

8, (cancelled)

9. (currently amended) An active device array structure, the active device array

structure comprising:

a base plate;

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a plurality of gate lines disposed over the base plate;

a plurality of data lines disposed over the base plate, wherein a pixel area is

formed between any two adjacent gate lines and any two adjacent data lines;

a plurality of active devices disposed over the base plate, wherein each active

device is formed in an intersection region between the gate line and the data line and

electrically connected to corresponding gate line and data line;

a plurality of storage capacitors disposed over the base plate, wherein each storage

capacitor has an upper electrode having at least a first aperture, and the first aperture is

surrounded by the upper electrode; and

a plurality of pixel electrodes disposed over the pixel area, wherein each the pixel

electrodes is respectively electrically connected to the corresponding active device and the

corresponding upper electrode.

10. (previously presented) The active device array structure of claim 9, wherein

the pixel electrodes comprise transparent electrodes.

11. (previously presented) The active device array structure of claim 9, wherein

the pixel electrodes comprise reflective electrodes.

12. (previously presented) The active device array structure of claim 9, wherein

the upper electrode is disposed over a portion of the gate line occupied area to form a

storage capacitor.

13. (previously presented) The active device array structure of claim 9, further

comprises a plurality of common lines formed between the gate lines, and the upper

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electrode is disposed over a portion of the common line occupied area to form a storage capacitor.

14. (currently amended) The active device array structure of claim 9, wherein each of pixel electrodes further comprises at least a second aperture when the first aperture is located underneath the pixel electrode, and the second aperture is formed <u>directly</u> above the first aperture.